

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 24 AND RING FACTORY ROAD IN HARFORD COUNTY, MARYLAND. MD 24 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 24 APPROACHES OPERATING CONCURRENTLY AND THE RING FACTORY ROAD APPROACHES ARE BEING CHANGED TO SPLIT PHASING OPERATIONS.

EXCLUSIVE LEFT-TURN PHASING EXISTS ON MD 24 APPROACHES

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

PROJECT DESCRIPTION

WIRING DIAGRAM

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	43 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED-SPAN WIRE MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

STANDARD NO. MD-104.04-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. RICHARD L. DAFF, SR.
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EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
5002	140 L.F.	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	50 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5005	50 L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8001	10 EACH	12 INCH LED SIGNAL HEAD SECTION
8004	6 EACH	8 INCH LED SIGNAL HEAD SECTION
8005	1 EACH	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8022	4 EACH	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'
8023	1 EACH	REM & DISPOSE MAT & EQUIP (PER ASSIGNMENT)
8029	8 L.F.	1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT CONDUIT
8036	140 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	10 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	43 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8046	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	25 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	1105 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8057	475 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8058	125 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	←G→	←G→	R	R	←G→	←G→	R	R	R	R	R	R	R	R
1 + 5 CHANGE	←G→	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R	R
PHASE 1 + 6	←G→	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R	R
1 + 6 CHANGE	←Y→	←Y→	G	G	←R→	←R→	R	R	R	R	R	R	R	R
PHASE 2 + 5	←R→	←R→	R	R	←G→	←G→	G	G	R	R	R	R	R	R
2 + 5 CHANGE	←R→	←R→	R	R	←Y→	←Y→	G	G	R	R	R	R	R	R
PHASE 2 + 6	←R→	←R→	G	G	←R→	←R→	G	G	R	R	R	R	R	R
2 + 6 CHANGE	←R→	←R→	Y	Y	←R→	←R→	Y	Y	R	R	R	R	R	R
PHASE 3	←R→	←R→	R	R	←R→	←R→	R	R	←G→	←G→	G	R	R	R
3 CHANGE	←R→	←R→	R	R	←R→	←R→	R	R	←Y→	←Y→	Y	R	R	R
PHASE 4	←R→	←R→	R	R	←R→	←R→	R	R	R	R	←G→	←G→	G	G
4 CHANGE	←R→	←R→	R	R	←R→	←R→	R	R	R	R	←Y→	←Y→	Y	Y
FLASHING OPERATION	←FLR→	←FLR→	FLY	FLY	←FLR→	←FLR→	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

WIRING KEY

A
B
C
D

7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

E
F

5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

G
H
J
K

MICROLOOP PROBE LEAD-IN

ML MICROLOOP PROBE SET

WR&A

WHITMAN, REQUARDT & ASSOCIATES, LLP

801 South Caroline Street, Baltimore, Maryland 21231

TOD NO: XX645-16

SHA NO: HA396B54

MD 24 @ Ring Factory Road

STATE OF MARYLAND

DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

MD 24 (VIETNAM VETERANS MEMORIAL HWY) @ RING FACTORY ROAD

Bel Air, Maryland

GENERAL INFORMATION SHEET

SCALE NONE

DATE 10/12/2011

CONTRACT NO. XX6455185

DESIGNED BY L. WAESCHE

COUNTY Harford

DRAWN BY L. WAESCHE

LOGMILE 12002407.78

CHECKED BY N. LEARY

TMS NO. K933

F.A.P. NO.

TOD NO.

TS NO. 1950G

DRAWING TSP-2 OF 2

SHEET NO. 2 OF 2

BY: lwaesche

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